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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,999	(01/30/2004	Srinivasan Chandrasekar	A4-1719 1998 EXAMINER	
27127	7590	02/07/2006			
		RTMAN, P.C.	MAI, NGOCLAN THI		
552 EAST 700 NORTH VALPARAISO, IN 46383				ART UNIT	PAPER NUMBER
				1742	

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/707,999	CHANDRASEKAR ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ngoclan T. Mai	1742	
	The MAILING DATE of this communication app			
Period for	or Reply			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>03 Jac</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	ion of Claims			
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) 3,7-12,15 and 17-25 is Claim(s) 13-14 and 16 is/are allowed. Claim(s) 1,2,4 and 6 is/are rejected. Claim(s) 5 is/are objected to. Claim(s) are subject to restriction and/or is a specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the content of the oath or declaration is objected to by the Examiner The oath of the o	is/are withdrawn from considerations of election requirement. The epted or b) objected to by the Edrawing(s) be held in abeyance. See too is required if the drawing(s) is objected to by the election is required if the drawing(s) is objected to be a section is required if the drawing(s).	Examiner. e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority :	ınder 35 U.S.C. § 119			
12) <u>□</u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔲 Infor	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

DETAILED ACTION

1. Claims 1-25 are pending. Claims 3, 7-12, 15, and 17-25 are withdrawn from consideration.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. Claims 1, 2, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Lavernia (U.S. Patent No. 5,939,146, art of record).

Lavernia discloses a coating consisting essentially of agglomerated nanocrystalline material. The agglomerated nanocrystalline material is formed by milling small chip or coarse grain material to form nanocrystalline size particles and as milling continues the nanocrystalline sized particles mechanically weld and agglomerate into flattened flakes of agglomerated nanocrystalline material (col. 4, lines 9-12 and lines 40-62). This corresponds to the claimed product consisting essentially of polycrystalline chips having nanocrystalline microstructures. Note that the flattened flakes read on the claimed chips in the form of platelets. The agglomerated nanocrystalline material is formed into coating by thermal spraying which corresponds to chips are held together by consolidation and the product is a monolithic material.

While the agglomerated nanocrystalline material (corresponding to applicant's polycrystalline chip) is not formed by a machining operation, however there is no distinction, e.g., in term of material and size, between the polycrystalline metal alloy chip in the form of platelets and the polycrystalline alloy powder of Lavernia. Since product in the product-by-process claim is the same as or obvious from a product of the prior art the claim is unpatentable even though the prior product was made by a different process. It has been established that a product by process claim is directed to the product per se, no matter how actually made, *In re Kirao*, 190 USPQ 15 at 17 (footnote 3). See also *In re Thorpe*, 227 USPQ 964 (CAFC 1985), which makes it clear that it is the patentability of the final product per se

Art Unit: 1742

which must be determined in a product by process claim and not the patentability of the process. An old or obvious product produced by a new method is not patentable as a product, whether claimed in

a product by process claims or not. Note that applicant has the burden of proof in such case.

As for claim 4 regarding the grain size, Lavernia discloses the average grain size of 17 nm, col.

11, lines 47-48.

4. Claims 5 is objected to as being dependent upon a rejected base claim, but would be allowable if

rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. 13-14, 16 are allowable.

6. This application contains claims 3, 7-12, 15, and 17-25 drawn to an invention nonelected with

traverse in Paper No. filed 4/11/05. A complete reply to the final rejection must include cancellation of

nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set

forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date

of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory

action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing

date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Art Unit: 1742

8. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally

be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy

King can be reached on (571) 272-1244. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Ngoclan T. Mai Primary Examiner

Art Unit 1742

n.m.